

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

(I) APPLICANT: Nielsen, Peter E. et al.

5 (ii) TITLE OF INVENTION: Peptide Nucleic Acids Having  
Antibacterial Activity

(iii) NUMBER OF SEQUENCES: 20

## (iv) CORRESPONDENCE ADDRESS:

10 (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz  
& Norris LLP

(B) STREET: One Liberty Place - 46th Floor

(C) CITY: Philadelphia

(D) STATE: PA

(E) COUNTRY: U.S.A.

15 (F) ZIP: 19103

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch disk, 1.44 Mb

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

20 (D) SOFTWARE: WordPerfect 6.1

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: N/A

(B) FILING DATE: 16 September 1998

(C) CLASSIFICATION: N/A

25 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/932,140

(B) FILING DATE: 16 September 1997

## (viii) ATTORNEY/AGENT INFORMATION:

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(C) REFERENCE/DOCKET NUMBER: ISIS-3267

(ix) TELECOMMUNICATION INFORMATION:

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5 (B) TELEFAX: 215-568-3439

(2) INFORMATION FOR SEQ ID NO: 1:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 bases

(B) TYPE: nucleic acid

10 (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TGACCATGAT TACG

14

(2) INFORMATION FOR SEQ ID NO: 2:

15 (I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 17 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TACGTGTTTC CTGTGTG

17

(2) INFORMATION FOR SEQ ID NO:3:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 17 bases

25 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GAGTATTCAA CATTTCC

17

## (2) INFORMATION FOR SEQ ID NO: 4:

## (I) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 17 bases  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ATTGTCTTCC TTTTCA

17

## 10 (2) INFORMATION FOR SEQ ID NO: 5:

## (I) SEQUENCE CHARACTERISTICS:

- 15 (A) LENGTH: 15 bases  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 1  
(D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 2  
(D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 3  
(D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

- (B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 5 (A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 10 (A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 15 (A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 20 (A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 25 (A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 30 (A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 35 (A) NAME/KEY: Modified-site  
(B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGTCATAGCT GTTTC

15

25 (2) INFORMATION FOR SEQ ID NO: 6:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

30 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 5

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 6

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 8

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

- (ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 9  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 10  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 11  
        (D) OTHER INFORMATION: N-acetyl(2-  
15 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 12  
        (D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 13  
        (D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 14  
        (D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 15  
        (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
35 lysine-glycine backbone  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TACTCATACT CTTCC

15

## (2) INFORMATION FOR SEQ ID NO: 7:

## (I) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

10

- (B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

15

- (B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

20

- (B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

25

- (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

30

- (B) LOCATION: 5

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site

35

- (B) LOCATION: 6.



(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 8

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
10 lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GAATACTCAT ACTCT

15

## (2) INFORMATION FOR SEQ ID NO: 8:

## (I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ix) FEATURE:

(A) NAME/KEY: Modified-site  
(B) LOCATION: 1(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site  
(B) LOCATION: 2(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site  
(B) LOCATION: 3(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 35 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

ACGCCACATC TTCGC

15

25 (2) INFORMATION FOR SEQ ID NO: 9:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

30 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 2

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 3

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 4

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 5

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 6

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 7

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 8

(D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-ethyleneglycol),

- (ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 9  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 10  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 11  
        (D) OTHER INFORMATION: N-acetyl(2-  
15 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 12  
        (D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 13  
        (D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 14  
        (D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 15  
        (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
35 lysine-glycine backbone  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

TNNNTTNNCT TCCCT

15

## (2) INFORMATION FOR SEQ ID NO: 10:

## (I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases

5 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 1

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 5

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 6

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 8

(D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-ethyleneglycol)<sub>3</sub>

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone



## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-

5 aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-

10 lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

NTTTNNTNTC CTTTC

15

## (2) INFORMATION FOR SEQ ID NO: 11:

## (I) SEQUENCE CHARACTERISTICS:

15

(A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ix) FEATURE:

20

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-

aminoethyl)glycine backbone

## (ix) FEATURE:

25

(A) NAME/KEY: Modified-site

(B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-

aminoethyl)glycine backbone

## (ix) FEATURE:

30

(A) NAME/KEY: Modified-site

(B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-

aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 35 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CATACTCTTT CTCCT

15

25 (2) INFORMATION FOR SEQ ID NO: 12:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 25 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

30 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 3

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 5

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 6

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 7

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 8

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

- (ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 9  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 10  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 11  
        (D) OTHER INFORMATION: N-pseudo isocytosine-  
15 acetyl(2-aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 12  
        (D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-  
20 ethyleneglycol),  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 13  
        (D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 14  
        (D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 15  
        (D) OTHER INFORMATION: N-acetyl(2-  
35 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site

- (B) LOCATION: 16  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 5 (A) NAME/KEY: Modified-site  
(B) LOCATION: 17  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 10 (A) NAME/KEY: Modified-site  
(B) LOCATION: 18  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 15 (A) NAME/KEY: Modified-site  
(B) LOCATION: 19  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 20 (A) NAME/KEY: Modified-site  
(B) LOCATION: 20  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 25 (A) NAME/KEY: Modified-site  
(B) LOCATION: 21  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 30 (A) NAME/KEY: Modified-site  
(B) LOCATION: 22  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 35 (A) NAME/KEY: Modified-site  
(B) LOCATION: 23

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 24

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 25

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

TTTNNNNTTT NTNTCTTTCC GTCTT

25

15 (2) INFORMATION FOR SEQ ID NO: 13:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

20 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 3

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 5

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 6

(D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 8

(D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-ethyleneglycol)<sub>3</sub>

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone



- (ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 11  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 12  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 13  
        (D) OTHER INFORMATION: N-acetyl(2-  
15 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 14  
        (D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 15  
        (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
25 lysine-glycine backbone  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

NTNTNNTNTC CTCTC

15

- (2) INFORMATION FOR SEQ ID NO: 14:  
    (I) SEQUENCE CHARACTERISTICS:  
30      (A) LENGTH: 12 bases  
        (B) TYPE: nucleic acid  
        (C) STRANDEDNESS: single  
        (D) TOPOLOGY: linear  
    (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 1  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 2  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 3  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 35 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 8

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 11

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 12

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CCCCTATTGT CC

12

25 (2) INFORMATION FOR SEQ ID NO: 15:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 12 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

30 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 5 (B) LOCATION: 2
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 10 (B) LOCATION: 3
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 15 (B) LOCATION: 4
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 20 (B) LOCATION: 5
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 25 (B) LOCATION: 6
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 30 (B) LOCATION: 7
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 35 (B) LOCATION: 8
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 9
  - (D) OTHER INFORMATION: N-acetyl(2-
- 5 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 10
  - (D) OTHER INFORMATION: N-acetyl(2-
- 10 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 11
  - (D) OTHER INFORMATION: N-acetyl(2-
- 15 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 12
  - (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-
- 20 lysine-glycine backbone
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

TTCTGCCTTT CT

12

- (2) INFORMATION FOR SEQ ID NO: 16:
- (I) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8 bases
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: N-acetyl(2-
- 30 aminoethyl)glycine backbone
- (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 2  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 3  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone
- 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

CTCGAGGT

## (2) INFORMATION FOR SEQ ID NO: 17:

## (I) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1

10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 2

15

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3

20

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 4

25

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5

30

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

TAAAC

5

## (2) INFORMATION FOR SEQ ID NO: 18:

- Ii) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 bases
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- 5 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: N-acetyl(2-
- 10 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 2
  - (D) OTHER INFORMATION: N-acetyl(2-
- 15 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 3
  - (D) OTHER INFORMATION: N-acetyl(2-
- 20 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 4
  - (D) OTHER INFORMATION: N-acetyl(2-
- 25 aminoethyl)glycine backbone
- § (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 5
  - (D) OTHER INFORMATION: N-acetyl(2-
- 30 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 6
  - (D) OTHER INFORMATION: N-acetyl(2-
- 35 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site



- (B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
5 (A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
10 (A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
15 (A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:  
20 AAGGAGGTGA 10
- (2) INFORMATION FOR SEQ ID NO: 19:  
(I) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 15 bases  
(B) TYPE: nucleic acid  
25 (C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 1  
30 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 5

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 6

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 8

(D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-ethyleneglycol)<sub>3</sub>

ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 10
  - (D) OTHER INFORMATION: N-acetyl(2-
- 5 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 11
  - (D) OTHER INFORMATION: N-acetyl(2-
- 10 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 12
  - (D) OTHER INFORMATION: N-acetyl(2-
- 15 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: N-acetyl(2-
- 20 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 14
  - (D) OTHER INFORMATION: N-acetyl(2-
- 25 aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 15
  - (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-
- 30 lysine-glycine backbone
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

TCTCTTINTT TCTCT

15

(2) INFORMATION FOR SEQ ID NO: 20:

(I) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 bases
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- 5 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 2
  - (D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 3
  - (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 4
  - (D) OTHER INFORMATION: N-pseudo isocytosine-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 5
  - (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 6
  - (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 35 (ix) FEATURE:
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 7

- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 5 (B) LOCATION: 8
- (D) OTHER INFORMATION: (O-2-aminoethyl-O'-acetyl-ethylene glycol)<sub>3</sub>
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 10 (B) LOCATION: 9
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 15 (B) LOCATION: 10
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 20 (B) LOCATION: 11
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 25 (B) LOCATION: 12
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 30 (B) LOCATION: 13
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- (ix) FEATURE:
- (A) NAME/KEY: Modified-site
- 35 (B) LOCATION: 14
- (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
 5 lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

TNTNTTTNTT TCTCT

15

## (2) INFORMATION FOR SEQ ID NO: 21:

## (I) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ix) FEATURE:

15 (A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-  
 aminoethyl)glycine backbone

## (ix) FEATURE:

20 (A) NAME/KEY: Modified-site

(B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-  
 aminoethyl)glycine backbone

## (ix) FEATURE:

25 (A) NAME/KEY: Modified-site

(B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-  
 aminoethyl)glycine backbone

## (ix) FEATURE:

30 (A) NAME/KEY: Modified-site

(B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-  
 aminoethyl)glycine backbone

## (ix) FEATURE:

35 (A) NAME/KEY: Modified-site

- (B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 5 (A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 10 (A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 15 (A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 20 (A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 25 (A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 30 (A) NAME/KEY: Modified-site  
(B) LOCATION: 11  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:
- 35 (A) NAME/KEY: Modified-site  
(B) LOCATION: 12

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 13

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 14

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 15

(D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

AGGTGTCAGC GAACG

15

20 (2) INFORMATION FOR SEQ ID NO: 22:

(I) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

25 (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

30 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 2

35 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone



- (ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 3  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 4  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 5  
        (D) OTHER INFORMATION: N-acetyl(2-  
15 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 6  
        (D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 7  
        (D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 8  
        (D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 9  
        (D) OTHER INFORMATION: N-acetyl(2-  
35 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site

- (B) LOCATION: 10  
 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
 (ix) FEATURE:
- 5 (A) NAME/KEY: Modified-site  
 (B) LOCATION: 11  
 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
 (ix) FEATURE:
- 10 (A) NAME/KEY: Modified-site  
 (B) LOCATION: 12  
 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
 (ix) FEATURE:
- 15 (A) NAME/KEY: Modified-site  
 (B) LOCATION: 13  
 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
 (ix) FEATURE:
- 20 (A) NAME/KEY: Modified-site  
 (B) LOCATION: 14  
 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
 (ix) FEATURE:
- 25 (A) NAME/KEY: Modified-site  
 (B) LOCATION: 15  
 (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-lysine-glycine backbone  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

30 CTTTGTCGAT ACTGG

15

- (2) INFORMATION FOR SEQ ID NO: 23:  
 (I) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 14 bases  
 (B) TYPE: nucleic acid  
 35 (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

5 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 2

10 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 3

15 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 4

20 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 5

25 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 6

30 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 7

35 (D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 11  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 12  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 13  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 30 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 14  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GTCATAGCTG TTTC

14

## (2) INFORMATION FOR SEQ ID NO: 24:

## (1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 11 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1

10

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 2

15

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3

20

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 4

25

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5

30

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6

35

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 5 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 10 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 9  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 15 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 10  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 20 (ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 11  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone
- 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

CATAGCTGTT C

11

- (2) INFORMATION FOR SEQ ID NO: 25:  
(I) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 10 bases  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

5 (B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

15 (B) LOCATION: 4

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

20 (B) LOCATION: 5

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

25 (B) LOCATION: 6

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

30 (B) LOCATION: 7

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:

(A) NAME/KEY: Modified-site

35 (B) LOCATION: 8

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 9

(D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone

## (ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 10

(D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

TAGCTGTTTC

10

## (2) INFORMATION FOR SEQ ID NO: 26:

## (I) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 8 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ix) FEATURE:

20 (A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

25 (A) NAME/KEY: Modified-site

(B) LOCATION: 2

(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

30 (A) NAME/KEY: Modified-site

(B) LOCATION: 3

(D) OTHER INFORMATION: N-acetyl(2-  
aminoethyl)glycine backbone

## (ix) FEATURE:

35 (A) NAME/KEY: Modified-site



(B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
5 (A) NAME/KEY: Modified-site  
(B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
10 (A) NAME/KEY: Modified-site  
(B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
15 (A) NAME/KEY: Modified-site  
(B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
20 (A) NAME/KEY: Modified-site  
(B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

25 GCTGTTTC

8

(2) INFORMATION FOR SEQ ID NO: 27:  
(I) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 15 bases  
(B) TYPE: nucleic acid  
30 (C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
(B) LOCATION: 1

(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
5 (B) LOCATION: 2  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
10 (B) LOCATION: 3  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
15 (B) LOCATION: 4  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
20 (B) LOCATION: 5  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
25 (B) LOCATION: 6  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
30 (B) LOCATION: 7  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone  
(ix) FEATURE:  
(A) NAME/KEY: Modified-site  
35 (B) LOCATION: 8  
(D) OTHER INFORMATION: N-acetyl(2-aminoethyl)glycine backbone

(ix) FEATURE:  
    (A) NAME/KEY: Modified-site  
    (B) LOCATION: 9  
    (D) OTHER INFORMATION: N-acetyl(2-  
5 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 10  
        (D) OTHER INFORMATION: N-acetyl(2-  
10 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 11  
        (D) OTHER INFORMATION: N-acetyl(2-  
15 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 12  
        (D) OTHER INFORMATION: N-acetyl(2-  
20 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 13  
        (D) OTHER INFORMATION: N-acetyl(2-  
25 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 14  
        (D) OTHER INFORMATION: N-acetyl(2-  
30 aminoethyl)glycine backbone  
    (ix) FEATURE:  
        (A) NAME/KEY: Modified-site  
        (B) LOCATION: 15  
        (D) OTHER INFORMATION: N-[acetyl(2-aminoethyl)]-C-  
35 lysine-glycine backbone  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

ACATTCACCA CCCTG

15